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## CURRICULUM VITAE

Name: Stephen T. Sonis

Address: 8 Decatur Lane, Wayland, Massachusetts 01778

Place of Birth: Providence, Rhode Island

### Education:

1967	B.S.	-Norwich University
1972	D.M.D.	-Tufts University
1976	D.M.Sc.	-Harvard University
1976-1977	Post-doctoral	-Oxford University (England)

### Specialty and Postdoctoral Training:

1972-1976	Clinical Scholar Doctoral candidate, Harvard-Forsyth Training Center for Clinical Scholars in Oral Biology
1972-1976	Specialty Training in Oral Medicine and Periodontology, Harvard School of Dental Medicine
1976-1977	Postdoctoral Fellow, Wolfson College, Oxford University, Oxford, England

### Research Fellowships:

1970 (Summer)	Fellowship in Preventative Medicine and Dentistry
1971 (Summer)	Tufts University Research Fellow

### Licensure and Certification:

Massachusetts - Registration #11920  
American Board of Oral Medicine #220  
Fellow, American Association of Hospital Dentists

### Academic Appointments:

1972 (Summer)	Instructor in Oral Diagnosis, Tufts University School of Dental Medicine
1976-1978	Instructor in Periodontology, Harvard School of Dental Medicine



1978-1980	Assistant Professor of Periodontology, Harvard School of Dental Medicine
1980-1984	Assistant Director, Clinical Cancer Education Program, Harvard School of Dental Medicine
1980-1981	Assistant Professor of Oral Medicine and Oral Pathology, Harvard School of Dental Medicine
1981-1988	Associate Professor of Oral Medicine and Oral Pathology, Harvard School of Dental Medicine
1984-1988	Co-director, Clinical Cancer Education Program, Harvard School of Dental Medicine
1988-	Professor of Oral Medicine and Oral Pathology, Harvard School of Dental Medicine
1992-2001	Senior Fellow, William Castle Society, Harvard Medical School
1993-2002	Chairman, Department of Oral Medicine and Diagnostic Sciences, Harvard School of Dental Medicine
2002-2005	Chairman, Department of Oral Medicine, Infection and Immunity, Harvard School of Dental Medicine
1996-	Research Advisor, Harvard-MIT-NEMC Research Training in Medical Informatics

#### Hospital Appointments:

1977-1978	Associate in Surgery (Dental), Sidney Farber Cancer Institute
1978-1979	Chief of Dental Services, Peter Bent Brigham Hospital
1976-1979	Junior Associate in Surgery (Dental), Peter Bent Brigham Hospital
1979-1982	Junior Associate in Surgery, Brigham and Women's Hospital
1977-1982	Director, Residency Program in General Dentistry, Peter Bent Brigham Hospital (Brigham and Women's Hospital)
1978-1982	Consultant in Surgical Oncology (Dental), Sidney Farber Cancer Institute
1979-1995	Chief of Dental Services, Brigham and Women's Hospital
1982-	Consultant in Dentistry, Children's Hospital Medical Center
1982-2003	Associate Physician in Surgical Oncology, Dana Farber Cancer Institute
2003-	Senior Surgeon, Dana Farber Cancer Institute
1982-	Consultant in Oral Surgery, New England Deaconess Hospital
1982-1996	Surgeon, Brigham and Women's Hospital
1983-	Consultant in Dental Surgery, Beth Israel Hospital
1995-2000	Chief, Division of Oral Medicine, Oral and Maxillo-

	facial Surgery and Dentistry, Brigham and Women's Hospital
1995-	Chief Division of Oral Medicine, Oral and Maxillofacial Surgery and Dentistry, Dana-Farber Cancer Institute
1996-	Senior Surgeon, Brigham and Women's Hospital

#### Other Professional Positions and Major Visiting Appointments:

1972 (Summer)	Tufts University School of Dental Medicine Instructor in Oral Diagnosis
1977-1983	Boston University School of Dental Medicine (Lecturer)
1977-1995	Tufts University School of Dental Medicine (Lecturer)
1978-1982	Abstractor, Transplantation Proceedings
1984-1986	Member, National Advisory Board for Dentistry, Professional Seminar Consultants, Inc.
1997-	Chief Medical Consultant, Biomodels and Affiliates, LLC

#### Awards and Honors:

Tufts Alumni Association Award in Periodontology  
 American Academy of Oral Medicine Award  
 Recipient, Knox Traveling Fellowship, Harvard University  
 Distinguished Faculty Award, Harvard School of Dental Medicine  
 International College of Dentistry Journalism Award  
 Certificate of Appreciation, Leukemia Society of America  
 Omicron Kappa Upsilon  
 Fellow, American Academy of Dental Science  
 Fellow, International College of Dentists  
 Fellow, American College of Dentists  
 Certificate of Merit, American Academy of Oral Medicine  
 Samuel Charles Miller Award, American Academy of Oral Medicine  
 Selected as "Dental Visionary" by the American Dental Student Association  
 Certificate of Appreciation, Boston Health and Hospitals HIV Program

#### Major Committee Assignments:

1978-1999	Committee on Postdoctoral Education, Harvard School of Dental Medicine
1979-1985	Consultant, Commission on Accreditation of Dental and Dental Auxiliary Education Programs, American Dental Association

1980-1982	Ambulatory Task Force, Brigham and Women's Hospital
1980-1982	Co-Chairman, Ad Hoc Committee on Fellowship, American Association of Hospital Dentists (AAHD)
1980-1982	Chairman, Standing Committee on Hospital Procedures (AAHD)
1982-1984	Regional Vice-President, American Association of Hospital Dentists (AAHD)
1983-1989	Hospital Committee for the Protection of Human Subjects from Research Risks
1983-1985	Ambulatory and Community Health Services Committee, Brigham and Women's Hospital
1983-1991	Standing Committee on Editorial Policy and Publications, American Association of Hospital Dentists (AAHD)
1983-1985	Standing Committee on Nominations, American Association of Hospital Dentists (AAHD)
1984-1986	Publicity and Public Relations Committee, American Academy of Oral Medicine
1984-1986	Committee on Tissue Banks, American Academy of Periodontology
1985-2000	Ambulatory Practice Advisory Committee, Brigham and Women's Hospital
1991-1997	Faculty Council (elected), Faculty of Medicine, Harvard Medical School. Reelected 1994.
1993-1997	Infection Control Committee, Massachusetts Dental Society
1993-1997	Scientific Program Committee, Yankee Dental Congress, Massachusetts Dental Society
1993-1996	Committee on Appointments and Promotions, Harvard School of Dental Medicine
1993-1996	Chair, Curriculum Development Group (Years 1 and 2), Harvard School of Dental Medicine
1995-1998	Committee on Appointments and Promotions, Faculty of Medicine, Harvard University
1998-1999	Advisory Committee on Dental Care for Medicaid Recipients, Commonwealth of Massachusetts
1999-	Task Force for Research, Harvard School of Dental Medicine
1999-2001	Committee on Appointments and Promotions, Faculty of Medicine, Harvard University
1999-2000	Task Force on Graduate Education, Harvard School of Dental Medicine
1999-	Committee on Graduate Education, Harvard School of Dental Medicine
1999-	Harvard-Forsyth Oversight Committee
2000-	Committee on Admissions, Harvard School of Dental Medicine
2000-2002	Primary Reviewer, MASCC/ISOO Mucositis Consensus Guideline
2004-	NIH Consensus Development Project on Criteria for Clinical Trials in Chronic Graft-versus-Host Disease

#### Editorial Boards:

1982-84	Associate Editor, <u>Cancer of the Head and Neck</u>
1984-89	Associate Editor, <u>Journal of Oral Medicine</u>
1985-88	Editor-in-Chief, <u>DentSat</u>
1986-89	Associate Editor, <u>Special Care in Dentistry</u>
1987-92	Editorial Advisor, <u>Annals of Dentistry</u>
1989-91	Editor, <u>Current Opinion in Dentistry</u>
1990-	Occasional Reviewer, <u>New England Journal of Medicine</u> , <u>Journal of Clinical Oncology</u> , <u>Cytokine</u> , <u>Journal of the</u> <u>American Dental Association</u> , <u>Proliferation</u> , <u>Cancer</u> , <u>Radiation Research</u> , <u>International Journal of Radiation Biology</u> , <u>Oncology</u> , <u>Physics</u>
1991-93	Editor-in-Chief, <u>Current Opinion in Dentistry</u>
1992-	Editorial Board, <u>European J Cancer Part B Oral Oncology</u>
1993-1999	Editorial Board, <u>Journal of Periodontology</u>
1999-	Associate Editor, <u>HMS Family Health Guide</u> , Web book supplement
2004-	Editorial Board, <u>Journal of Supportive Oncology</u>
2005-	Editorial Board, <u>Journal of Dental Research</u>

#### Major Research Interests:

1. Model development for therapeutic interventions of oral complications of systemic disease
2. Oral complications of cancer therapy
3. Outcomes and benefit assessment

#### Professional Organizations:

American Academy of Oral Medicine  
American Academy of Oral Pathology  
International Association for Dental Research  
International Society of Oral Oncology  
Harvard Odontological Society  
American College of Dentists  
International College of Dentists  
Multinational Association for Supportive Care in Cancer  
American Society of Clinical Oncology  
International Academy of Oral Oncology (Founding Fellow)

#### Teaching Experience:

1. Clinical and didactic: General Practice Residency Program in

- Dentistry, Brigham and Women's Hospital
2. Clinical and didactic: Introduction to Clinical Medicine, Harvard Medical School at Brigham and Women's Hospital
  3. Didactic: Predoctoral Oral Pathology, Harvard School of Dental Medicine
  4. Didactic: Postdoctoral Oral Pathology, Harvard School of Dental Medicine
  5. Didactic: Predoctoral Oral Oncology, Harvard School of Dental Medicine
  6. Didactic: Predoctoral Oral Medicine, Tufts University School of Dental Medicine.
  7. Didactic: Postdoctoral Periodontology, Tufts University School of Dental Medicine.
  8. Didactic: Continuing Education Programs in Oral Medicine, Brigham and Women's Hospital and Harvard School of Dental Medicine
  9. Didactic: Videotapes Moderator and Editor-in-Chief, DentSat (24 programs annually).
  10. Research sponsor, pre- and postdoctoral, Harvard School of Dental Medicine
  11. Didactic: Continuing education lectures to numerous dental and medical groups.
  12. Advisor, Castle Society, Harvard Medical School.
  13. Creator, Harvard Experience-based Longitudinal Program in Dentistry.
  14. Informatics training program
  15. Numerous invited presentations (national and international)

## Bibliography

### Journals:

1. Jackim E, Hamlin J, Sonis ST. The effect of heavy metals on enzyme activity in the killifish *Fundulus Heteroclitus*). J Fisheries Res Board Board of Canada 1970; 27:383-388.
2. Jandinski JJ and Sonis ST. In vitro effects of isobutyl cyanoacrylate on four types of bacteria. J Dent Res 1971; 50:1557-1558.
3. Jandinski JJ, Sonis ST, Doku HC. The incidence of mast cells in selected oral lesions. Oral Surg 1972; 34:245-248.
4. Wilson RE, Sonis ST, Godrick EA. Neuraminidase as an adjunct in the treatment of residual systemic tumor with specific immune therapy.

Behring Inst Mitt 1974; 55:334-342.

5. Sonis ST, Stelos P, Kopelman JD, Wilson RE. Contrasting effects of alloantiserum and xenoantiserum on cell-mediated lysis of tumor cells. *Cell Immunol* 1975; 16:251-260.
6. Sonis ST, Jandinski JJ, Guinta J. Cyanoacrylate as an adhesive for other medicaments. A study with Triamcinolone on the healing of experiment oral ulcers. *Pharm and Therapeut in Dent* 1975; 2:147-156.
7. Sonis ST, Stelos P, Bear SE, Fitzgerald MA, Wilson RE. The immune response of mice repeatedly injected with allogeneic tumor cells. *Transplantation* 1975; 20:399-403.
8. Sonis ST, Stelos P, Wilson RE. Successful immunotherapy with BCG as an adjunct to surgical resection for murine fibrosarcoma. *Surg Forum* 1975; 26:133-135.
9. Shklar G, Sonis ST. The effect of methotrexate on experimental salivary gland neoplasia. *Arch Oral Biol* 1975; 20:787-790.
10. Sonis ST, Stelos P, Fitzgerald M, Bear S, Wilson RE. The role of effector cells and antiserum in the inhibition of cell-mediated cytotoxicity of allogeneic tumor cells. *Transplantation* 1976; 22:52-60.
11. Sonis ST, Stelos P, Bancewicz J, Kolodkin A, Wilson RE. Potentiation of cell-mediated lysis of xenogeneic tumor cells: The role of antiserum and effector cells. *Cell Immunol* 1976; 23:297-308.
12. Sonis ST, Stelos P, Stylos WA, Wilson RE. Inhibition of lymphoma cell proliferation by supernatant from fibrosarcoma cultures: Preliminary evidence that the inhibitory material is Prostaglandin E. *Prostaglandins* 1977; 12:87-96.
13. Falcao R, Sonis ST, MacLennan ICM, Chassoux D, Davies A, Munro T. Assessment of drug sensitivity of human leukemia myeloblasts. I. Labeling human myeloblasts with 5-125UdR-2'-Deoxyuridine for survival studies in mice. *Brit J Cancer* 1977; 36:297-306.
14. Sonis ST, Falcao R, MacLennan ICM. Assessment of drug sensitivity of human leukemic myeloblasts. II. Correlation of clinical responses to cytosine arabinoside with rate of destruction 125UdR-labeled myeloblasts by this drug in mice. *Brit J Cancer* 1977; 36:307-312.

15. Wilson RE, Sonis ST, Steele G, Jr., Godrick EA, Stelos P. Immuno-therapy with neuraminidase in murine animal models: In vitro monitoring of the immune state. In Immunotherapy of Malignant Disease: Selected paper of an International Symposium in Vienna (11/9-12/77), 219. Rainer I (ed), F.K. Schattauer Verlag, Stuttgart, Germany, 1978.
16. Lamster I, Sonis ST, Hannigan A, Kolodkin A. An association between Crohn's disease, periodontal disease and enhanced neutrophil function. J Perio 1978; 49:475-479.
17. Steele GD, Jr., Sonis ST, Stelos P, Rittgers R, Zamcheck N, Finn D, Maltz J, Mayer R, Wilson RE. Circulating immune complexes inpatients following clinically curative resection of colorectal cancer. Surgery 1978; 84:648-654.
18. Sonis ST, Clark WB, Shklar G. Chlorhexidine-induced lingual keratosis and dysplasia in rats. J Perio 1978; 49:585-591.
19. Sonis ST, Sonis A, Lieberman A. Oral complications in patients receiving treatment for non-head and neck malignancies. J Am Dent Assoc 1978; 97:468-472.
20. Lamster I, Sonis ST, Mirando DM, Wilson RE. Influence of supernatants from polymorphonuclear leukocytes on blastogenesis of syngeneic and allogeneic murine splenocytes. Clin Exp Immunol 1979; 36:285-291.
21. Sonis ST, Mirando D, Stelos P. Capacity of human oral leucocytes to mediate antibody-dependent cell-mediated cytotoxicity. Arch Oral Biol 1979; 24:235-237.
22. Sonis A, Sonis ST. Oral complications of cancer chemotherapy in pediatric patients. J Pedodontics 1979; 3:122-128.
23. Sonis ST, Mirando DM, Lamster I, Stelos P, Wilson RE. Evidence suggesting the presence of antigen-antibody complexes on the surface of salivary leukocytes. J Perio Res 1979; 14:370-375.
24. Lockhart PB, Sonis ST. Relationship of oral complications to peripheral blood leukocyte and platelet counts in patients receiving cancer chemotherapy. Oral Surg 1979; 48:21-28.



25. Lamster IB, Sonis ST, Wilson RE, Falchuk ZM. Enhanced metabolic activity by polymorphonuclear leukocytes from patients with active inflammatory bowel disease. *Surg Forum* 1979; 30:362-364.
26. Stafford R, Sonis ST, Lockhart P, Sonis A. Oral pathoses as a diagnostic indicator in leukemia. *Oral Surg* 1980; 50:134-139.
27. Lamster I, Sonis ST, Mirando D, Kolodkin A, Rodrick M, Wilson R. Modification of in vitro and in vivo immune function by acute inflammatory cells. *Transplantation* 1980; 30:244-250.
28. Lockhart PB, Sonis ST. Utilization of inpatient dental consultation services. *J Hosp Dent Prac* 1981; 1:18-21.
29. Stafford RE, Sonis ST, Shklar G. Bilateral necrotizing sialometaplasia: A case report. *J Oral Med* 1981; 36:28-30.
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36. Peterson DP, Sonis ST. Oral complications of cancer chemotherapy: Present status and future studies. *Cancer Treatment Reports* 1982;

66:1251-1256.

37. Goteiner D, Sonis ST, Fasciano R. Cavernous sinus thrombosis and brain abscess initiated and maintained by periodontally involved teeth. *J Oral Med* 1982; 3:80.
38. Devereux D, Sonis ST, Tilney NL. The antigenicity of electrocauterized allogeneic tumor cells in mice. *J Surg Res* 1982; 33:17-22.
39. Sonis ST, Fazio R, Setkowicz A, Gottlieb D, Vorhaus C. Comparison of the nature and frequency of medical problems among patients in general, specialty and hospital dental practices. *Ann Dent* 1982; 2:42-45.
40. Fitzgerald JE, Sonis ST, Rodrick ML, Wilson RE. Interaction of Ia antigen-bearing polymorphonuclear leukocytes and murine splenocytes. *Inflammation* 1983; 7:25-33.
41. Sonis ST, Kaban LB, Glowacki J. Clinical trial of demineralized bone in the treatment of periodontal defects. *J Oral Med* 1983; 38:117-122.
42. Connolly SF, Lockhart PB, Sonis ST. Severe oral hemorrhage and sepsis following bone marrow transplant failure. *Oral Surg* 1983; 56:483-486.
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44. Connolly SF, Sonis ST, Lockhart PB. An Unusually Located Early Peripheral Ameloblastoma of the Anterior Mandible: A Case Report. *J Oral Med* 1984; 39:180-182.
45. Cortes R, Correa LA, Behbehani AI, Sonis ST, Wilson RE. Successful immunotherapy in a murine metastasizing fibrosarcoma model. *J Surg Oncol* 1984; 25:289-295.
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51. Wu J, Fitzgerald J, Sonis ST, Ravikumar T, Wilson R. Increased efficiency of immunotherapy using irradiated tumor cells. *Cancer Immunology Immunotherapy* 1986; 24:68-71.
52. White BA, Lockhart PB, Connolly SF, Sonis ST. The use of infrared thermography in the evaluation of oral lesions. *Int J Tiss Reac* 1987; IX(2):105-114.
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54. Sonis ST. Hospital Dentistry: Is there a future? *Spec Care in Dent*, November-December 1987; 7:243.
55. Sonis ST and Kunz A. Impact of improved dental services on the frequency of oral complications of cancer therapy. *Oral Surg* 1988; Jan. 65(1):19-22.
56. Hahn E, Sonis ST, Gallagher G, Atwood D and Ichiro N: Preservation of the alveolar ridge with hydroxylapatite-collagen implants in rats. *J Pros Dent* Feb 1988.
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58. Sonis ST, Tracey C, Shklar G, Jenson J, Florine D: An animal model for mucositis induced by cancer chemotherapy. *Oral Surg* 1990; 69:437-543.
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61. Sonis ST. Acquired Immunodeficiency virus in dentistry. *Current Opinion in Dentistry* 1991; 1:373-374.
62. Kitay D, Ferraro N, Sonis S. Lateral pharyngeal space abscess as a consequence of regional anesthesia. *J Am Dent Assoc* 1991; 122: 56-59.
63. Sonis S, Clark J. Prevention and management of oral mucositis induced by antineoplastic therapy. *Oncology* 1991; 5:11.
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66. Sonis S, Koplowsky A, Mitus J et al. Relationship of chemotherapy-induced mucositis and myelosuppression in hamsters. *Eur J Cancer B Oral Oncol* 1992; 28B:43.
67. Sonis ST, Costa JW, Evitts SM et al. Effect of epidermal growth factor on ulcerative mucositis in hamsters that receive cancer chemotherapy. *Oral Surg Oral Med Oral Pathol* 1992; 74:749.
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69. Sonis ST et al. Position paper for the AAP. Treatment of gingivitis and periodontitis. 1993.
70. Woo SB, Sonis ST, Monopoli MM et al: A longitudinal study of oral ulcerative mucositis in bone marrow transplant recipients. *Cancer* 1993; 72:1612-1617.
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Cancer Res 1994; 54:1135-1138.

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78. Sonis ST, VanVugt A, Haley J et al. Attenuation of oral mucositis by transforming growth factor B3. European J Cancer Part B 1997. 33:47-54.
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- induced mucositis. *Current Opin in Oncol*. Vol 10, Suppl 1:S23-S27, 1998.
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  88. Sonis ST, Oster G, Fuchs H, Bellm L, et al. Oral mucositis and the clinical and economic outcomes of blood and bone marrow transplantation. *J Clin Oncol*, 2001; 19: 2001-05.
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- mucositis and acute GVHD prevention in allogeneic stem cell transplantation. *Bone Marrow Transplant* 2002; 29:373-7.
93. Sonis ST. The biologic role for nuclear factor-kappaB in disease and its potential involvement in mucosal injury associated with anti-neoplastic therapy. *Crit Rev Oral Biol Med* 2002; 13:380-89.
  94. Sonis ST, Scherer J, Phelan S, Lucey CA, et al. The gene expression sequence in an animal model of acute radiation-induced oral mucositis. *Cell Prol* 2002; 35 (Suppl 1):93-102.
  95. Antin JH et al. Interleukin-1 blockade does not prevent acute graft versus host disease. Results of a randomized, double blind, placebo-controlled trial of Interleukin-1 receptor antagonist in allogeneic bone marrow transplantation. *Blood* 2002; 100:3479-82.
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  99. Trantolo DJ, Sonis ST, Thompson MJ, Wise DL, Lewandrowski K, Hile DD. Evaluation of a porous, biodegradable biopolymer scaffold for mandibular reconstruction. *Int J Oral Maxillofac Implants* 2003; 18:182-88.
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